The Chemical Age

Index to Volume XXXII.

January—June, 1935.

Absorption, in Theory and Practice; M. B. Donald, 581
Abyssinia, Chemical Imports, 462
Accidents, Fatalities, etc., 38, 64, 82, 87, 133, 156, 187, 207, 230, 253, 272, 279, 300, 310, 341, 363, 384, 469, 475, 517, 563, 587
Acid Liquors, Lifting, 150
Acids, Organic, by Natural Processes, 336
Adsorption; M. B. Donald, 577
Africa, South: Alcohol, Pure, Manufacture, 18; Chemical Notes from, 266; Insecticides from Volatile Oils, 27; Oil-bearing Seeds, 59; Perfumery Manufacture, 314; Soda Ash, 10

10
Agriculture, Chemistry in, in 1934;
H. J. Page, 12
Air Force on British Petrol, 488
Alchemists' Club, Glasgow, 222
Alcohols, Sulphonated Fatty, 200
Alkali Works Regulations, 106, 125, 236
Alloys, Corrosion-Resisting Non-Ferrous, 314
Alminium Facts and Figures, 159

314
Aluminium Facts and Figures, 159
America (South), British Exports to, 55
Ammoniated Peat, 2
"AnalaR" Standards for Laboratory
Chemicals, 72
Analysis, Chemical, The Limitations of,
71

71
Analysis, Volumetrie: Some New Indicators, 73
Analyst, Chemicals for the use of the, 72
Analyst's Notebook, Pages from an, 242
Analyst, Some New Indicators for the,

73
Andersonian Chemical Society, 101
Anthracite Hydrogenation, German, 221
Antiseptics, Chloramine, 197
Apparatus, Refinements in, 392
Argentina, Insecticides in, 484
Asphalt Road Construction, 82
Association of British Chemical Manufacturers, 402
Atmospheric Pollution, 464, 489
Atomic Arrangement in Metals and Alloys, 448
Australia, Alkali Products in, 236

Authors—
Alliott, Eustace A.; Continuous Drying, 568
Armstrong, E. F.; Chemical Discoveries and Ideas, 391
Armstrong, Professor H. E.; Chemical Personalities, 1910-35, 397; As it should be To-morrow, 119
Bedford, G. F.; Colour Constancy Measurement, 371
Carlisle, Alex; "Glass Silk" as a Heat Insulating Material, 28
Coulson, E. A.; Organic Chemistry, 1910-1935, 415
Dolton, R. H.; High Speed Centrifugal Separation, 575
Donald, M. B.; Absorption, in Theory and Practice, 581; Adsorption, 577
Farmer, P. A.; Processing Plant in the Food Industry, 7
Gothard, H. A. S.; Evaporation of Non-Satting Liquors, 572
Griffiths, Hugh; Crystallisation—A Typical Unit Process, 567
Ibbotson, W. H.; Roasting and Leaching, 576
Pettinger, A. H.; Preventing the Photochemical Decomposition of Food, 548
Pickard, J. A.; The Technique of

Photochemical Decomposition of Food, 548
Pickard, J. A.; The Technique of Filtration, 580
Poxwell, G. E.; Twenty-five Years of Progress, 389
Green, J. B.; Filter Papers for Laboratory Use, 370
Griffiths, Hugh; Plant Design and Construction, 393
Hall, A. J.; Rare Earth Metals in the Treatment of Textiles, 327; Bleaching, Dyeing and Finishing, 6

Authors-continued.

unors—continued.

Heastie, Basil; Cooling and Condensing Processes, 579

Herbert, T. M.; The Functions of a Research Department, 177

Menzles, G. K.; The Royal Society of Arts, 463

Page, H. J.; Chemistry in Agriculture in 1934, 12

Radley, J. A.; The "Bloom" of Oils, 480

Page, H. J.; Chemistry in Agriculture in 1934, J. Chemistry in Agriculture in 1934, J. A.; The "Bloom" of Oils, 480 Schofield, M.; New Methods for Manufacturing White Lead, 218 Singer, Felix; Chemical Stoneware, Old and New, 582 Stapleton, W. A.; Crushing and Grinding, 578; The Maintenance of Grinding Mills, 145 Thomas, Herbert V.; Screening Machinery, 57ct V.; Screening Machinery, 57ct V.; Screening Analysis in the Production of Pure Materials, 74 West, J. H.; Tendering for Plant and Equipment, 285; Williams, A. E.; The Manufacture of Egg Powder, 502 Wiseman, F. W.; Selection of Crushing and Grinding Machinery, 151 Withey, S. Howard; Financial Position in the Chemical Industry, 121, 482

Position in the Chemical Industry, 121, 482 Yardley, V. A.; Recent Advances in Autoclaves, 570 Autoclaves, Recent Advances in; V. A. Yardley, 570 Autoclaves for the Chemical Industry

Autoxidation of Hydrocarbons, 31 Avometer, The, 379

Bakelite, Uses of (sound-film by Bakelite, Ltd.), 149
Beeswax, Empire Production of, 527
Beet Sugar Industry, 384
Birmingham University Chemical Society, 201, 244
Bleaching, Dyeing and Finishing;
A. J. Hall, 6, 30
Bleaching, Dyeing and Finishing, Progress in, 173, 238, 526
Bleaching, Textile, 328
Boller Practice in Government Departments, 224

Book Reviews-

Analysis, A Text-Book of Elementary Qualitative (Engelder), 239 Buildings, Means for Protecting (Bautenschutzmittel), 486 Chemical Apparatus, Progress of (Fortschritte des Apparatewesens), 294 Chemical Engineering Plant Design (Vilbrandt), 239 Chemical - Technical Apparatus, Manual of (Handbuch der ehemisch-technischen Apparate, maschinellen

Chemical - Technical Apparatus, Manual of (Handbuch der chemischtechnischen Apparate, maschinelle n Hilfsmittel und Werkstoffe), 204
Chemistry, Industrial, The Importance of, in the World-Picture and Recollections of its Development (Die industrielle Chemie in ihrer Bedeutung im Weltbild und Erinnerungen an ihren Aufbau), 294
Crystal Chemistry (Hassel), 486
Diffraction of X-Rays and Electrons by Amorphous Solids, Liquids and Gases (Randall), 486
Emulsions, Technical Aspects of (Harvey), 486
Gas Analysis, Technical (Lunge), 239
Inventions, Practical Hints on the Patenting and the Development of, 24
Joly's Technical Information for 1935
(Technisches Auskunftsbuch fur das Jahr, 1935), 239

Book Reviews-continued.

Physical Chemistry, Experimental (Daniels, Mathews and Williams),

239 Plant, The Design and Construction of High Pressure Chemical Plant (Tongue), 294 Remsen's Introduction to the Study of Chemistry (Reihlen), 486 Varnish Making (Barry and Dunster), 294

294 Books Received, 18, 43, 112, 188, 208, 299, 320, 361, 385, 429, 454, 496, 537 Books, New, for Chemical and Allied Industries, 219 Boots Pure Drug Co., 315, 530 Bordeaux, Funigation Station in, 330 Bottles for Laboratory Chemicals, 67 Brazil, Textile Plant Service, 456; Liquid Carbon Dioxide, 374 Brine Solutions in Processing Operations, 306

306 British Association, 1910-1935, The,

British Association, 1910-1935, The, 439
British Association of Chemists, The, 104, 158, 242, 334, 380, 396
British Chemical and Dyestuffs Traders' Association, 445
British Chemical Standards, 48
British Chemical Standards, 48
British Colour Council, 100
British Commercial Gas Association, 467
British Glass Convention, The, 468
British Industries Fair, 13, 37, 55, 124, 141, 167, 168, 225, 490, 599
British Industries Fair (1936), 574
British Glindustries Fair (1936), 574
British Glindustries Fair (1936), 574
British Glindustries Fair (1936), 574
British Steinec Guild, 436, 521
British Standards Institution, 32, 82, 189, 207, 279, 295, 301, 475, 508, 517, 554
British Sulphate of Ammonia Federation,

British Sulphate of Ammonia Federation, nine from Sea Water, Extraction of,

Brussels International Exhibition, 428 Bush & Co., W. J., 530

C

Calcium Sulphate Research, 126
Calendars and Diaries Received, 19, 42
Canada, Metal Production, 177; Cleaning Research in, 379; Uranium Salts,
Production, 480
Carbonisation, Low Temperature, 224;
Medium Temperature, 329
Carboy, Action over Broken (Southern
Railway Co. v. Boots Pure Drug Co.,
Ltd.), 124
Casein, The Commercial Importance of,
369

Casein, The Commercial Importance of, 369
Cellulose Derivatives, Advances in, 222
Cellulose, Oxidation of, 271
Cement, The Quaternary System in, 507
Centenaries, Chemical, in 1935, 163
Centrifugal Clarifier Installation, A, 533
Centrifugal Separation, High Speed;
R. H. Dolton, 575
Ceramic Society, 428
Chemical Discoveries and Ideas, 1910-35;
E. F. Armstrong, 391
Chemical Engineering, 100 Years of (George Scott), 419, 475
Chemical Engineering Congress, 1936, 209
Chemical Engineering Group, 37, 57,

nical Engineering Group, 37, 57, , 105, 258, 267, 286, 357, 422, 424,

446
Chemical Engineers' Training for Industry, 36
Chemical Linkage, Types of, 158
Chemical Organisations, Co-operation Between, 283
Chemical, Fine, Manufacture (Howards and Sons, Ltd.,) 410
Chemicals, Fine, and Drugs, 1910-35, Manufacture of (British D ug Houses, Ltd.), 403
Chemical Society, 37, 179, 292, 241

Chemical Society, 37, 179, 222, 241, 244, 270, 285, 288, 305

Chemical Society, Society of Chemical Industry, and Institute of Chemistry, Draft Agreement, 283 Chemist, Railway, The Work of the, 179 Chemistry Examinations, Successes and Failures in, 550 Chemistry in Agriculture in 1934; H. J. Page, 12 Chemistry, National Certificates in, 428

428

Chemistry Research Board, Report of the, 499 China Clay Trade, 203 China China Chiles College, London, Judice Celebrations, 124 City and Guilds Institute, Jubilee of, 133

City and Guilds Institute, Jubilee of, 139
Class, Continuation, System, The, 45
Clay, Colloidal, in Soap-Making, 545
Cleaning Research in Canada, 379
Cleveland Institution of Engineers, 335
Coal Consumption, Decline in, 126
Coal, Evaluation of, 240
Coal Utilisation Council, 156
Coal Survey, The National, 272
Cod Liver Oil, Vitamin Potency and
Associated Characteristics of, 178
Colloid Chemistry, Advances in, 200
Colour and Colour Nomenclature, 100
Colour Constancy Measurement; Bedford, G. F., 371
Colour, In Quest of, 263
Colour Matching Problem, 372
Colouring Matters, Natural, 293
Colour Users' Association, The, 421
Colours, Azolc, on Cotton, 356
Company Registrations at Somerset
House, 96

Company News-

ompany News—

Aberthaw and Bristol Channel Portland Cement Co., Ltd., 226; Daniel Adamson and Co., Ltd., 321; Paniel Adamson and Co., Ltd., 341; Agricultural and Public Contractors, Ltd., 329; Alecxader, Ferguson and Co., 431; Allen and Co., Ltd., Edgar, 279, 337, 588; Alliance Artificial Sili, Li.; Alpha Cement, Ltd., 188, 230; Amalgamated Oxides, Ltd., 563; American Cyanamid Co., 321; The Anglo-Chilean Nitrate Corporation (Cia Salitrera Anglo-Chilena), 320; Assumore, Benson, Pease and Co., Ltd., 539; Associated Fireday Companies, Ltd., 564, 559, Associated Cleaners, 342, Associated Fireday Companies, Ltd., 564, 559, Ltd., 564, 559, Associated Fireday Companies, Ltd., 564, 559, Associated Fireday Companies, Ltd., 564, 559, Ltd., 564, 569, Associated Fireday Companies, Ltd., 564, 559, Associated Fireday Companies, Ltd., 564, 559, Associated Fireday Companies, Ltd., 564, 559, Associated Fireday Companies, Ltd., 564, 569, Associat

ated Porttand Cement Manufacturers, 255

Babcock and Wilcox, Ltd., 364, 385; Charles Bacon and F. M. Brooks, 363; Bakelite, Ltd., 133, 559; Barrow, Hepburn and Gale, Ltd., 316, 517; Barry and Staines Linoleum, 364; Bede Metal and Chemical Co., 342; Belliss and Morcom, 564; Benn Brothers, Ltd., 87; Joseph Bentley, Ltd., 341; Benzol and By-Products, 364; Betralinious Compositions, 88; Bleachers' Association, 540; Blandell, Spence and Co., 64; Blythe and Co., William, 301; Booke, Roberts and Co., A, 164, 412, 588; Boots Pure Drug Co., 163, 187, 230, 254, 431, 475, 530, 540; Borax Consolidated, Ltd., 111, 164; Bowater, W. V., and Sons, 15; T. and R. W. Bower (Illingworth) Carbonisation Co., Ltd., 169; Bowmans (Warrington), Ltd., 169; Bowmans (Warrington), Ltd., 188, 540; Branston Artificial Silk Co., 226; British Alkaloids, 540; British Alkanlinium Co., 296, 411; B. Bitish Sealger, Co., 133.

Company News-continued

npany News—continued

540; British Bitumen Emulsions,
588; British Celanese, Ltd., 64,
133, 364; British Celophane, Ltd.,
42; British Cotton and Wood
Dyers' Association, Ltd., 454; British Cyanides Co., 517, 518;
British Drug Houses, Ltd., 321,
342; British Enka Artificial Silk
Co., 297, 302; British Glues and
Chemicals, 164; British Glues and
Chemicals, 164; British Hydrogenation, Ltd., 475; British
Industrial Solvents, Ltd., 42;
British Match Corporation, 431;
British (Non-Ferrous) Mining Corporation, Ltd., 169; British Oil
and Cake Mills, Ltd., 231, 297;
British Oxygen Co., Ltd., 412, 453,
540, 563; British Plaster Board,
Ltd., 109, 297, 495, 588; British
Suchar Processes, Ltd., 363; British
Suchar

Dyeing Co., 4td., 253

anada Cement, 43; Canadian Celanese, 518; Canadian Industries, Ltd., 187, 279; Canning Town Glass Works, 302; Canning Town Glass Works, 302; Canning and Co., W., 254; Cannon Iron Foundries, Ltd., 300, 517; Capeable, 133; Cartvale Chemical Works, 341; Celanese Corporation of America, 540; Cellulose Colours, Ltd., 363; Central Oll Mining and Chemicals Trust, 20; Cerebos, Ltd., 280; Chance Bros., Ltd., 182; Cheshire United Salt Co., Ltd., 341; The Chilean Nitrate and Iodine Sales Corporation, 19; Chloride Electrical Storage Co., 473; The Clayton Aniline Co., Ltd., 587; Coal and Allied Industries, Ltd., 19, 133, 253, 495; Coloquid, Ltd., 19; 133, 253, 495; Coloquid, Ltd., 19; Commercial Solvents Corporation, 301; Continental Tintex and Dye Products, Ltd., 207, 275; Cooper, McDougall and Kohertson, 280; Cornbrook Chemical Co., Ltd., 453; Corn Products Co., Ltd., 453; Corn Products Co., 144, 453; Corntaudis, Ltd., 163; 249, 344, 317; Crossled and Sons, 30seph, 301; Crossled and Sons, 30seph, 301; Crossled Sorthers, 240; The Crown Cork Co., Ltd., 495 Canada

Deutsche Babcock and Wilcox Dampfkesselwerke, 43; Distillers Co., 64; Dominion Tar and Chemical Co., 280; Dorman, Long and Co., Ltd., 64, 495; Ducklam and Co., Alexander, 385; Duffield Coal Products, Ltd., 332, 495; Duffleld Iron Corporation, 384; Dunlop Rubber Co., 385; E. I. du Pont de Demours and Co., 163, 208; Dutch New Guinea Petroleum Co., 495; Dynamit-Nobel Co., 496

495; Dynamit-Nobel Co., 496

Eastman Kodak Co., 412; Eastwoods
Cement, 188; Electro Chemical
Development Syndicate, Ltd., 42;
Electrolytic Zinc of Australas,
43, 64; Ely Beet Sugar Factory,
564; The Enfield Rolling Mills, 517;
English Beet Sugar Corporation,
564; English Clays, Lovering
Pochin and Co., Ltd., 293, 363, 475;
English China Clays, 231; English
Velvet and Cord Dyces Association,
the, 539; Erinold, Ltd., 19; Evans
Sons Lescher and Webb, 231;
Express Dairy Co., Ltd., 279

Fairy Dyes, Ltd., 188; Field, J. C. and J., 496; Firth, Thos., and John Brown, Ltd., 280; Fison, Packard and Prentice, Ltd., 249, 473; Fleming and Co., Ltd., A. B., 473, 496; Foster Instrument Co., 539; Frajon, Ltd., 109; Fallers' Earth Union, 473, 587

Gallenkamp and Co., Ltd., A., 279;
Gas Light and Coke Co., 111;
Gateshead Gas Co., 279; German
Bergin Co., 19; Gibbons Bros.,
Ltd., 279; Gideon Richter (Great
Britain), Ltd., 19; Goodlass Wall
and Lead Industries, 385, 431, 470;
Gossage and Sons, William, 301;
Govan Ironworks, 87; Graphite
Oils Co., 302; Green, Herbert, and
Co., 280; Arthur Guinness, Son,
and Co., Ltd., 300

Hadfields, Ltd., 20, 254, 432, 405; Harringtons and Goodlass Wall Co., 111; W. and R. Hatrick, Ltd., 133; Home Grown Sugar, Ltd., 584;

HOM TIONTE

Company News - continued

Howards and Sons, Ltd., 453, 587; Hulett's South African Refineries, Ltd., 320

G. Farbenindustrie, 341, 342; Imperial Chemical Industries, Ltd., 42, 517, 539, 563; I.C.I. (Fertillisr and Synthetic Products), Ltd., 517; India Tyre and Rubber Co., 87; International Bitumen Emulsions, Ltd., 279, 539; International Combustion, Ltd., 230, 320, 412; Ilford, Ltd., 275, 330; Indestructible Paint Co., 254; International Carbonising Co., 20; International Nickel Co., of Canada, Ltd., 268, 454; International Paint and Compositions Co., 208, 297; I. P. Bemberg Co., 518; Inversek Paper Co., 164; Ipswich Beet Sugar Factory, 564 Farbenindustrie

Johnsons and Sons, Ltd., 411; Jurgens, 321

King's Lynn Beet Sugar Factory, 564; Knight, Ltd., John, 302; Koppers Co., 301; Krupp, Friedrich, Co., of Essen, 111

Laporte, Ltd., B., 454, 462, 473; Lautaro Nitrate Co., 230, 275; Leeds Fireclay Co., 20; R. and H. Leigh and Sons, Ltd., 199; Lever Brothers, Ltd., 321, 587; "Lignite Petrol Co.," 587

"Lignite Petrol Co.," 587

Macleans, Ltd., 300; Magadi Soda Co., 385; Mansfield and Wykes, Ltd., 163; May Roberts (Ireland), Ltd., 279; Merry and Bright, Ltd., 207; Metafillers (1929), 88; Metal Industries, Ltd., 320; Metallgesell-schaft, A.G., of Frankfurt, 111; Midland Tar Distillers, 518; Milton Proprietary, Ltd., 364; Minerals Separation, 280; The Mond Nickel Co., Ltd., 411; Monsanto Chemicals, Ltd., 208; Montecatini (Societa Generale per l'Industria Mineraria and Agricola), 454; Morgan Crucible Co., 280; Mortis, Herbert, Ltd., 88, 496; David Moseley and Sons, Ltd., 341; Murex, Ltd., 42, 109, 342; Nathan and Co., Joseph, 255

Joseph, 255

National Drug and Chemical of Canada Co., 431; N.C. Zine Oxide Co., Ltd., 539; Wm. Neill and Son (8t. Helens), Ltd., 495; Neuchatel Asphalte, 473, 564; New Process Co., Ltd., 163; New Transvaal Chemical Co., 20, 208; New Zealand Sulphur Co., 187; New Acaland Sulphur Co., 187; Newton, Chambers and Co., 385; Nipah Distilleries of Malaya, Ltd., 587; Nitrate Railways Co., 454; Non-Ferrous Metal Products, Ltd., 539; North British Aluminium Works, 133; North British Rubber Co., 253, 279, 454; North Broken Hill, 208, 496

Oakey and Sons Labe, Ltd., 122.

Oakey and Sons, John, Ltd., 188; Orr's Zinc White, Ltd., 539; The Oxley Engineering Co., Ltd., 230

Palestine Potash, 564, 588; Park Gate Iron and Steel Co., 431; Pears, A. and F., 342; Pease and Partners, 473; Peerless Safety Glass Co., Ltd., 15; Phil-Sano, Ltd., 109; Phospherine (Ashton and Parsons), 588; Phosferine Pro-ducts, Ltd., 320; Keith Piercy, Ltd., 300; Pinchin, Johnson and Co., 275, 337; Plastic Safeglass Syndicate, Ltd., 15

Reckitt and Sons, 164, 254, 385, 473; Redfearn Brothers, Ltd., 187; Reynolds and Branson, Ltd., 294; Brydon and Youatt, Ltd., 384; Rio Tinto Co., 385; The Rock Hill China Clay Co., Ltd., 363; Ronsheim and Moore, 539; Ruber Growers' Association (Incorporated), 384; The Rubber Powder Co., Ltd., 110; Rubber Regenerating Co., 412, 454

Sadler and Co., 133; Salt Union, Ltd. 280; Sanders, Ltd., 540; Sanitas Co., S. W., 564; Sanitas Trust, 564; Schroder Executor and Trustec Co., 341; Scottish Central Glass Works, Ltd., 384; Scottish Olls, Ltd., 19, 87; Shawinigan Water and Power Co., 64, 164, 385, 518; Shearman Bros., Ltd., 42; "Shell" Transport and Trading Co., 540; Sheppey Glue and Chemical Works, 310; Shropshire Beet Sugar Co., 496; Simon-Carves, Ltd., 453; Smart and Worrall, Ltd., 164; Snia Viscosa, 111; Southall Bros., and Barclay, 164, 187, 341; South Metropolitan Gas Co., 88; The South Suburban Gas Co., 42; Sponcel Ltd., 363; Staveley Coal and Iron Co., 231; Starch Products, Ltd., 162° Staveley Coal and

Company News-continued.

Iron Co., Ltd., 163; The Sturtevant Engineering Co., Ltd., 495

Tarmac, 280, 342, 564; Tate and Lyle, Ltd., 412, 496; Tchidy Minerals, 231; Charles Tennaut and Co., Ltd., 163; Tharsis Sulphur and Copper Co., 321, 384; Thompson and Capper Wholesale, Ltd., 64; Timothy Whites, Ltd., 64; Tomaryou Artificial Silk Works, 412, 454; Turner and Newall, 226, 518

United Drug Co., 302; United Drug Corporation, 254; United Glass Bottle Manufacturers, 254; United Indigo and Chemical Co., 540 United Premier Oil and Cake Co., 321, 364; United Turkey Red, 87, 255, 280; United Water Softeners, 208

The Vacuum Drier and Chemical Equipment Co., Ltd., 297; Van den Bergins, 321; Veno Drug Co., 64, 496; Vick Chemical Products (England), Ltd., 163; Viscose Development Co., 302

fall Paper Manufacturers, 454; Ward, Thos. W., 255, 540; Waxed Papers, 280; Westminster Labora-tories, Ltd., 163; Wintershall Co., 540; Worthington-Simpson, Ltd., 358; Wright, Layman and Umney,

Yorkshire Dyeware and Chemical Co., 20, 518; Yorkshire Indigo, Scarlet and Colour Dyers, 231

Zinc Corporation, 540; Zinc Manufacturing Co., 411

Constructional Materials, The Widening Scope for, 309

Continental Chemical Notes— Austria, 38, 83, 129, 405, 444, 490,

ontinental Chemical Notes—
Austria, 38, 83, 129, 405, 444, 490, 558
Belgium, 316, 337, 355, 490
Bulgaria, 337, 427, 444
Czecho-Słovakia, 38, 83, 183, 296, 316, 337, 355, 444, 512, 558
Esthonia, 160, 469, 490, 512
Finland, 203, 296, 512
France, 60, 83, 106, 129, 160, 203, 226, 275, 296, 316, 337, 355, 427, 414, 469, 490, 558, 534
Germany, 38, 60, 83, 106, 129, 160, 183, 203, 226, 249, 296, 316, 337, 355, 405, 427, 444, 469, 490, 512, 534, 558, 584
Greece, 129, 469
Greenland, 183
Holland, 129, 512
Hungary, 203, 316, 490, 558
Huly, 129, 160, 226, 249, 275, 296, 355, 427, 512, 534, 584
Jugoslavia, 427, 444, 490
Latvia, 83
Lithuania, 160
Norway, 60, 129, 490
Poland, 38, 83, 106, 183, 275, 316.

Lithuania, 160
Norway, 60, 129, 490
Poland, 38, 83, 106, 183, 275, 316, 427, 469, 512, 558
Roumania, 129, 427, 444, 490, 584
Russla, 38, 160, 293, 224, 249, 296, 337, 355, 405, 427, 409, 490, 512, 534, 558, 584
Spain, 160, 275, 316, 469
Sweden, 38, 83, 129, 183, 226, 275, 512, 534, 558
Switzerland, 60, 83, 106, 275, 316, 444, 469

Switzerland, 60, 83, 100, 273, 510, 444, 469
Turkey, 38
Yugoslavia, 203
Control, Automatic, Maintenance by, 147
Control, Remote, New Departures in, 159
Cooling and Condensing Processes;
Basil Heastic, 579

Correspondence-

Arsenic in Sulphur (S. I. Levy), 102 Atomic Science, The Part Played by Chemistry in Modern (Frederick Soddy), 459 British Industries Fair (Phillips), 13, (McGowan), 55 (G. Drury Coleman), 124

(McGowan), 55 (G. Drury Coleman), 124
Congress for Scientific Management, 324, 488
Diesel Oil, New Tax on (W. A. Bristow), 423
Engineers Trained in Chemistry (J. H. West), 180
Fatty Acid Distillation (J. Rolland and Co., Ltd.), 102
Grain Size (Hussey), 102
Heat and Power (Chemical Consultant), 35
Methyl Bromide (Albert Henning), 423
Unshrinkable Process (Arnold Frobisher, Wool Industries Research Association)
Low Temperature (Johnston), 13
Reading, Light Week-end (Smith), 102
Saponification Process (Peacock), 272

Corrosion, Protection Against, 49, 56, 124
Corrosion-Resisting Material, Factors
Influencing the Efficiency of a, 333
Crime, Chemistry and, 104
Crushing and Grinding; W. A. Stapleton, 578
Crushing and Grinding Machinery,
Selection of; F. W. Wiseman, 151
Crushing, Selentific, 245
Crystallisation; A Typical Unit Process;
Hugh Griffiths, 567
Customs Tariffs and Valuations for
Chemicals for British India, 134
Cyanide, German Exports of, 234
Czechoslovakia, Sulphur Market, 101

D

Dairy Research and Control, 350
De-Aerating Boiler Feed Water, 245
Decahydronapithalene, British-trade, 59
Denmark, Spanish Potash for, 75
Department of Scientific and Industrial
Research, Annual Report, 171
Dermatitis, The Chemical Examination
of Furs in Relation to, 178
De-Sizing of Silk and Cotton, The, 174
Detel Products, 124
Distillation, Fatty Acid (Letter to the
Editor), 102
Driers and Alkyds, Interesting Facts
about, 479
Drying, Continuous; Eustace A.
Allott, 568
Drying, Fundamental Principles of, 446
Drying, The Important Question of, 155
Dust in Factorics, 272
Dyers' Wage and Hours Demand, 128
Dyes for Bological Work, 376
Dyestuffs, Coal Tar, World Production
of, 553, 575
Dyestuffs, New, 33, 292, 489
Dyestuffs Output in the United Kingdom, 458

East Malling Research Station: Injection of Fertilisers into Fruit Trees, 528

Editorial -

Alliance, A Triple (Chemical Society,
The Institute of Chemistry and the
Society of Chemical Industry Draft
Agreement), 281
American - Institute of Chemical
Engineers, 166
Ammoniated Peat, 2
Beet Sugar Subsidy, 366
Boots' Pensions, 565
Bottles for Laboratory Chemicals, 67
British Industries Fair, 189
British Movker, Encourage the, 433
Budget, The, 344
Business, The Keynote of Successful,
344
Chemical Engineering Congress, 1936,
209
Chemical Engineering Education, 166

209 Chemical Engineering Education, 166 Chemical Engineer, Training the, 190 Chemical Invention, Trend of, 433 Chemical Plant Corrosion, 323 Chemicals Exported, More, 455 Chemist, The Industrial, as a Citizen, 258

258 Chemist, The, as Statesman, 343 Class, Continuation, System, The, 45 Consultants, Permanent, 165 Corrosion, Film Theory of, 324 Corrosion of Metals, 497 Duddell Medal, The, 234 Duisberg, Dr. Carl: An Appreciation, 304

puddell Medal, The, 234
Duisberg, Dr. Carl: An Appreciation,
304
Exposition of Chemical Industries, 520
Germany, Chemical Developments in,
21
Government in Industry, Self-, 413
Grain Size, 46
Hazards in the Chemical Industry, 138
High Pressure Research, 408
Imperial Chemical Industries, The
Organisation of, 68, 414
I.C.I. Dividend, 304
I.C.I. Progress, 323
I.C.I. and Armaments, 258
Imperial Institute, The, 455
Income Tax Concessions, 233, 344
Indian Chemical Imports, 2
Indian Lac Industry, The, 282
Industrial Reorganisation Bill, 89
Industrial Reorganisation Bill, 89
Industrial Secrets, 210
Industry, An Ancient (Essential Oils),
22
Information, Pooling of, 114

22 Information, Pooling of, 114 Institute of Chemistry, Charter Jubilee, 30, 209 Insulin, The Discovery of, 257 Jubilee and After, The Silver, 387, 413 Knowles Oven, The, 456 Lysol, Division of Opinion on, 541 Management, Scientific, 113 Material, A New Raw, 434 Mechanical Calculation, 365 Micro-Organisms to Work, Putting, 498 498 New Year Message, A, 1 Nitrogen Outlook, The, 21

Editorial-continued.

ditorial—continued.

Oil Situation, The, 477, 478
Oxygen, Heavy, 434
Partent Litigation, 234
Perkin Medal Award, 46
Plant Accessories, 22
Plant, Wear and Tear of, 233
Poisons, The Sale of, 541
Premier, The New, 519
Press, Freedom of the, 498
Profession of Chemistry, The, 165
Professor, The Case of the Stolen, 433
Reacting, Light Week-end, 67
Repair Problem, A Novel, 67
Repair Problem, A Novel, 67
Resins, Synthetic, New Use for, 477
Safety, Chemical Industry and, 566
Science and Economic Change, 233
Science in the King's Reign, 519
Scientific Instruments, 365
Shellac, The Uses of, 282
Sickness Rate, A Lower, 542
Society of Chemical Industry:
Glasgow Meeting, 497
Staff Appointments, Higher, 519
Standardisation, 114, 189
State and Chemical Research, The, 497
Steam in Works, Utilisation of, 456
Stores Testing Department, 137
Students, Finding Posts for, 114
Sulphur is Facing a Crisis, 1
Technical Development, Progress in,
477
"The Chemical Age" Year Book, 1 Students, Finding Posts 107, 114
Sulphur is Facing a Crisis, 1
Technical Development, Progress in, 477
"The Chemical Age" Year Book, 1
Trade, Overseas Chemical, 257
Trade, Five Months' Overseas, 541
Trade, Overseas, Chemical, in 1934, 45
Training the Worker, 45
Unemployment, Voluntary, 566
United States Exhibition, 366
United States Exhibition, 366
United States Exhibition, 366
United States Exhibition, 366
Wool Dyeing Discovery, The, 303
Works Maintenance, 137
Working Hours, Shorter, 478
Education of the Chemist, 223
Education, Overcrowded, 124
Egg Powder, The Manufacture of;
A. E. Williams, 502
Electrical Equipment at a Fertiliser
Factory, 531
Electron Diffraction and Surface
Structure, 216
Elements, Rarer, Recent Researches on
Certain of the, 305
Elements, Rarer, Recent Researches on
Certain of the, 305
Emulsification in the Laboratory, 374
Emulsions, Fechnical Aspects of, 27
Engineers Trained in Chemistry (Letter
to the Editor), 180
Epsom Salt Manufacture in India, 510
Eucalyptus Piperitone, 288
Evaporation of Non-Salting Liquors;
H.A. S. Gothard, 572
Evaporator for Production in Bulk, An,
148
Exhibition of Scientific Instruments

148 Exhibition of Scientific Instruments (Physical Society), 51 Explosion at Tube Works, 272

F

Faraday Society, 243

Far Eastern Chemical Notes— China, 183, 249, 297, 405, 512 Dutch Indies, 405, 512 Indo-China, 352, 512 Japan, 30, 100, 129, 183, 249, 297, 352, 405, 512, 534 Manchukuo, 352 Manchuria, 30, 100, 297, 512 Siam, 352 Manchura, 35, 201, 00, 291, 012 Siam, 352 Federation of British Industries, 351 Federation of Curriers, Light Leather Tanners and Dressers, 235 Ferro Alloys, British Standards, 48 Fertilisers, Injection of, into Fruit Trees, Fillers in Bituminous Road Construction, 80
Filter Paper for Analytical Work, 76
Filter Papers for Laboratory Use;
J. B. Green, 370
Filtration, The Technique of; J. A.
Pickard, 580
Financial Position in the Chemical
Industry; S. Howard Withey, 121,
482
Filter Trade Conditions in, 389

482 Finland, Trade Conditions in, 389
Finland, Trade Conditions in, 389
Fire Protection by Carbon Dioxide, 532
Fires, Laboratory, 377
Fire Fighting Suits, 273
Fire Fighting Suits, 273
Fire Fighting with Methyl Bromide, 311
Fluorescence Observation, 379
Food as Colloid Systems, 14
Food Industry, Importance of Milk in the, 552
Food Industry, Heat Transfer in the, 437, 523 Food Industry, Heat Transfer in the, 437, 523
Food Industry, Metals in the, 80
Food Industry, Processing Plant in; P. A. Farmer, 7
Food, Preventing the Photochemical Decomposition of; A. H. Pettinger, 548

d Technologist, The Training of the, 213 Fractional Distillation at Provan Chemical Works, 101 Fuel Research Station, 503, 546 Fume Elimination, Deodorisation and, 123 Fumes, Industrial, and Their Control, 265

Gas Association, London and Southern Junior, 114

Gas Association, London and Southern Junior, 114
Gas Attack, Civil Defence Against, 521
Gas Cylinders, Modern Steel Tubes and
(The Chesterfield Tube Co., Ltd.), 418
Gases, Flue, Removal of Smoke from, 57
Gases, Hydrocarbon, 196
Germany: Amber Production, 442;
Anthracite Hydrogenation, 221; Chemical Exports, 308; Cyanide Exports, 234;
Mineral-Earth Pigments, 315; Potash
Sales, 218; Serap Tin, 13; Sulphuric Acid, 571; Tung 011 Demand, 542;
Wool Substitutes, 215; Zinc Oxide
Trade, 436
Glass Bottle Industry, Some Problems of the, 95
Glass, Certain Physical Properties of, 80
Glass in Thin Films, Analysis of, 201
Glass, The Weathering and Corrosion of, 330
"Glass Sillt" as a Heat Insulating

330

"Glass Silk" as a Heat Insulating Material; Alex Carlisle, 28
Glass, Specifications for sands for Colourless, 314
Glassware, Laboratory, 379

"Government, Self-," The Case Against,

422 Grain Size, 46, 102 Graphite, Colloidal, for Lubrication, 418 Gray, Thomas, Memorial Trust, 176 Grinding Mills, The Maintenance of; W. A. Stapleton, 145

Heat and Power (Letter to the Editor), John Lewer (Letter to the Editor), 35
Honey Production, Technique of, 242
Honours, New Year, 15
Hull Chemical and Engineering Society, 98, 243
Hull City Laboratories, 98
Humidity, Control of, 374
Hydrocarbons, Autoxidation of, 31
Hydrocarbons in the Coal, Oll and Gas Industries, Processing of Solid and Liquid, 357
Hydrocarbons, Processing of in the Liquid, 357 Hydrocarlyons, Processing of, in the Coal Oli and Gas Industries, 335 Hydrocarbons, Pyrolysis of, 37 Hydrochloric Acid, Moving Hot, 583 Hydrogenation Plant for Australia, 74, 36 36 Hydrogen, Heavy, Chemistry of, 241 Hydrogenation Plant, High Pressure, 77 Hygrometer, A New, 246

Ideal Home Exhibition, 262, 315
Imperial Chemical Industries, Ltd.,
Annual Report and Meeting of, 325,
406; Alkali Products in Australia, 236;
Ardeer Explosion, 82; Armaments,
258; Dividend, 296, 304; Gift to
Nation, 50; The Organisation of, 68;
Capital Scheme, 557, 583; Plastic
Material, A New, 59; Secrets Offered
to, by Woolwich Arsenal Clerk, 79;
Synthetic Resin, Transparent, 225;
Wool Dyeing Discovery, 198
Imperial College of Science and Technology, 14, 194
Imperial Institute, The Work of the, 457
Import Duties Advisory Committee, 19,
42, 64, 87, 109, 187, 207, 230, 253, 341,
411, 433, 517
India, British, Imports (Customs Tariffs),
129; Chemical Imports, 2, 465;
Concessions, 272; Epsom Salt Manufacture, 510; Fuel Research Station,
Proposed, 285; Sugar Industry, 22
Indicators, Some, of Special Analytical
Value, 75
Industry, Some "Long Distance"
Problems of, 194
Inks and Pigments, The Use of InfraRed Rays for Distinguishing between,
178
Institute of Chemistry, Chemical Society,
and Society of Chemical Loudstry

Inks and Pigments, Inte Use of Infrare Red Rays for Distinguishing between, 178
Institute of Chemistry, Chemical Society, and Society of Chemical Industry, Draft Agreement, 283
Institute of Chemistry, 47, 71, 73, 105, 123, 127, 158, 179, 200, 209, 211 (Annual Meeting), 237, 240, 293, 401, 489; Charter Jubilee Celebrations, 554
Institute of Fuel, 37, 57, 177, 212, 224, 240, 335, 357
Institute of Industrial Administration; Junior Branch, 175
Institute of Mechanical Engineers, 77
Institute of Mechanical Engineers, 77
Institute of Mechanical Engineers, 330
Institution of Mechanical Engineers, 330
Institution of Chemical Engineers, 330
Institution of Chemical Engineers, 341, 95, 158, 191 (Annual Meeting), 309, 400, 437, 523
Institution of Gas Engineers, The, 465
Institution of Mining Engineers, 126
Institution of Mining Engineers, 126
Institution of Hubber Industry, 56, 158, 176, 242, 308, 335
Instruments and Apparatus (Exhibition of Physical Society), 51
International Society of Leather Trades Chemists, 27, 235

International Tin Research and Development Council, 129
Inventions, The Development of, 24
Iodine Ointment, Sale of, 252
Iron and Steel Institute, The, 244, 271
Italy: Aumonia, Synthetic, 390
Chemical Industry (Montecatine Progress), 467; Glycerine Imports, 375; Phosphates Deposits, 445, 573; Potash Salts, Extracting, 346; Pyrites Utilisation, 2

Japan: Acetic Acid, 172; Carbon Tetrachloride Production, 271; Coal-tar Industry, 37; Heavy Chemical Production in, 551; Methanol in, 224; Titanium White Manufacture, 507 John Benn Hostel, 468, 583 Jubilce, Royal (H.M. King and Queen passing Bouverie House), 425

King's Birthday Honours, 511 Koppers Circulation Ovens, 478

L

Laboratory, Equipment, Electrical, 375 Laboratory Fittings, 372 Laboratory Glassware: British Standard Specifications, 554 Lac, The Future for, 122, 221 Lancashire Industrial Activities, 427 Lancastrian Frankland Society, 119, 265

Latex, The Physico-Chemical Properties of, 242 Laundry, The Work of the, 200 Lecturer, The Evolution of the Public, 259

British Celanese v. Courtaulds, Ltd., 157
Bruff, Albert, v. Solignum, 266
Colgate Palmolive, Peet, Ltd., v. Revroil Products, Ltd. (Palmolive Soap Infringement), 128
Hays, Harold, v. R. J. Hamer and Sons, Ltd., 156
Poppe Rubber and Tyre Co., Ltd., v. "India Rubber Journal." 82
Southern Railway Co. v. Boots Pure Drug Co., Ltd. (Action over Broken Carboy), 124
Taylor, James (Trongate), Ltd. (Drugs Offence Alleged), 183
Wexler, Joseph, v. Tomkins, F. and E., Ltd., 470
Vorkshire Fishery Board v. E. Hardman, Son and Co., Ltd., 170
Lever Brothers, Ltd., 1910-35, Progress of, 407

of, 407 Light, Fastness to, 158 Liquids, Separation of Solds from, 3 Lockwood Electrode, The, 358 Long-Cham Compounds, 179 Low Temperature Carbonisation (Letter to the Editor), 13 Lubricants, 241 Lubrication Research, 225 of, 407 ght, Fa

Manchester Chamber of Commerce, 156
Manchester Literary and Philosophical
Society (Chemical Section), 348
Manchester Metallurgical Society, 309
Mark Chemictur, 2109 Meat Chemistry, 240 Mechanical Testing, 378 Mellon Institute, 1934-1935, Progress at, 367 Metallic Coatings as Protective Media, Metallic Films and Surfaces, Structure of, 243 of, 243 Metals, Powdered, Manufacture and Uses of, 36 Metals, Rare Earth, in the Treatment of Textiles; A. J. Hall, 327 Metals, Tin Films of, on Solid Surfaces, 126 Metals, Tin Films of, on Solid Surfaces, 126
Meters and Boiler Control Equipment (George Kent, Ltd.), 409
Methanol in Japan, 224
Methyl Bromide, Fire Fighting with, 311
Mexican Federal Government, 394
Microchemical Analysis by Colorimetric methods, 243
Midland Chemists' Dinner, 128
Milk in the Food Industry, Importance of, 552
Mill, a British, of the "Carr" Type, 248
Mineral Oil Relining in Great Britain, 529

546 Motors, Efficiency-type geared, 244

529
Molecular Structure, 285
Morris Conveyors, 181
Motor Spirit from Tar, Production of,

National Physical Laboratory, 120, 226, 435 Netherlands: Sodium Ferrocyanide, 424

News from Allied Industries-

Artificial Silk, 15, 226, 249, 297, 316, Artificial Silk, 15, 226, 249, 297, 316, 359
Asbestos Cement, 226
Beet Sugar, 226, 316, 470
Bleaching and Dyeing, 83, 444
Cement, 558
China Clay, 15, 60, 183, 297, 444, 558
Cocoa Butter, 316 Cocoa Butter, 316
Compressed Gases, 275
Dyeing and Finishing, 337
Dyestuffs, 275
Fertilisers, 249, 275, 359
Glass, 15, 297
Iron and Steel, 15, 60, 83, 297, 337, 359, 470, 558
Linoleum, 226
Mineral Oil, 60, 83, 249
Non-Ferrous Metals, 15, 60, 226, 275
297, 316
Oil, 15
Oil Refining, 470 Oil, 15
Oil Refining, 470
Oil Seeds, 297
Paint and Varnish, 275, 297, 337
Paper, 15
Photographic Materials, 275
Plaster Board, 297
Rubber, 249, 275, 297
Smokeless Fuel, 297
Tanning, 60, 183, 275, 316, 444
Whale Oil, 60

New Zealand: Chemical Imports, 405; Kauri Gum Trade, 160 Nickel Alloy Manufacture at Birming-ham, 460 Nicotine, Extraction of, from Powdery Tobacco Waste, 522

Obituary-

Obtuary—
Adam, R. P., 106; Armstrong, K., 34
Baker, Professor H. B., 411; Battle,
J. C., 202; Bentley, J. E., 202;
Birtwistle, H., 332; Bishop, W., 120;
Blackett, Colonel W. C., 553; Blick,
G. H. W., 120; Boulton, Sir H.,
511; Burton, W., 160; Bush,
F., 355, 380; Butler, Lt.-tol. J. B.,
411

Clarke, C. B. O., 315; Clark, A. S., 432; Cohen, J. B., 549; Cox, G. H., 490; Craig, J., 106; Crawford, W., 332; Cross, C. F., 359; Cundiff, Sir W., 202 Edpech, R. G. M., 511; Dewar, Lady, 48; Dixoh, R. S., 160; Downer, Sir H. G., 469; Duisberg, Dr. C., 273, 304; Dunlop, D. N., 512; Dupont, A. 1., 411
Ewing, Sir A., 35, 46

Dunlop, D. N., 512; Dupont, A. I.,
411
Ewing, Sir A., 35, 48
Follows, H., 448; Frost, C., 432
Garlick, G. E., 184; Gilliat, A., 48, 81;
Gilman, H., 10; Gladitz, C. J., 279;
Goulding, Sir W. L., 584; Greenhalgh, W., 160
Henning, A., 511; Hewlett, T. R., 411;
Hodgkinson, Professor W. R., 332;
Howard, J., 34
Huhla, G., 202
Langdale, A. W., 48; Larsen, P., 490
Macleod, Professor J. J. R., 257;
Malcolm, S., 279; Matthew, Colonel
J. S., 160; Mennell, J. L., 411;
Moore, B., 332; Morrison, A. L., 248;
Muirhead, F., 469; Mutton, W., 10
Parker, W. J., 106; Phillip, A., 184;
Pilkington, Colonel W. N., 160;
Pitt-Taylor, Dr. F. L., 106; Pochin,
H. S., 380; Pollen, Lt.-Col. S. H.,
284
Reoch, J. W., 224; Ridsdale, C. H., 10

284 Reoch, J. W., 224; Ridsdale, C. H., 10 Steel, J. H., 160; Stiles, M. H., 448 Thomas, H. H., 448 Walker, Sir J., 448; Warhurst, P. E., 511; Wharton, T., 279

Oil and Colour Chemists Association, 49, 71, 97, 158, 216, 261, 289, 312, 345, 447, 479 Oil from Coal Committee of the Scottish National Development Council, 485 Oil Problem, Chemical Industry and the,

547 Oil Refining, Modern Methods of, 345,

358
Oils, Duty on Imported, 525
Oils, The "Bloom" of; J. A. Radley,
480
Oils, Essential, Development, 22
Oils, Hydrocarbon, Duty on, 353
Optical Apparatus, Progress in, 376
Organic Chemistry, 1910-1935; E. A.
Coulson, 415 Coulson, 415 Ovens, Electrically Heated, 374

Paint and Varnish Problems in Aero-nautics, 49 Paint Industries Club, 557 Paint Industry and Modern Finishes, 348
Paint Industry, Co-operation in the, 312
Paint Industry, Co-operation in the, 517
Painting, Spray, 149
Paint Trade, The Romance of the, 557
Palmolive Soap Infringement, 128
Paper, Pottery Printing Tissue, 428
Paraffin Wax and Petroleum Ceresins, 23
Parliament, Chemical Matters in, 272, 525 Perkin, Medal Award, 46 Personalities, 1910-35, Chemical; Pro-fessor H. E. Armstrong, 397

Personal-

Personal—

Allen, Dr. E. J., 15; Alliott, E. A., 160; Alty, T., 553; Armstrong, Dr. E. F., 81; Astbury, W. T., 534; Aston, Professor K., 355; Aylward, F. X., 469

Banting, Professor Sir F. G., 534; Carding, Professor J., 511; Bassett, Professor H., 202; Baty, A. J., 129; Bawn, Dr. C. E. H., 534; Bearsted, Lord, 129; Beatty, A. C., 355; Beharrell, Sir G., 48; Bell, Sir T., 315; Bennett, J. S., 553; Benn. E., 129; Benn, H. F., 24; Beschorman, W. C., 315; Bewley, Dr. W. F., 511; Blair, J., 160; Bosch, Dr. C., 332; Boys, Dr. C. V., 15; Brodetsky, Professor S., 129; Brooks, J., 81; Brown, R. S., 224

2dadman, Sir J., 24; Calder, W. A. S., 202; Campbell, Dr. C., 534; Campbell, J., 224; Carr, Colonel W. M., 511; Cathcart, Professor E. P., 511; Cathcart, Professor

Davis, Colonel, A. C., 553; Debye, Professor P., 511; Deller, E., 15; Dudley, Earl of, 202; Duncan, Sir A., 48; England, E. C. G., 284; Evans, M. G., 534; Freeth, Major F. A., 511; Furse, Sir W., 15; Garlick, H. S., 553; Gibb, Sir A., 511; Gibson, A. J., 447; George, C., 224; Gillam, A. E. M. G., 534; Gooday, W. E., 184; Grant, A. J., 284; Gratwick, P. J., 10; Gray, Professor A., 24; Guba, K. D., 81; Hadfield, Sir R., 511; Hamor, W. A., 584; Harden, Professor A., 315, 490; Harris, R. W., 15; Harvey, S., 511; Hawkins, C. C., 15; Holland, C. T., 315; Holmes, E. J., 15; Holland, C. T., 316; Holland, C. T., 316; Holland, C. T., 316; Holland, C. T., 316; Holland, C. T., 317; Holmes, E. J., 15; Holland, C. T., 318; Holland, T., 318; Holland

dahl, E., 490; Ross, W. H., 248; Russell, F., 355
Schuster, Sir A., 10; Shaw, Engineer-Captain J. F., 511; Shepherd, Captain V., 511; Sidgwick, Dr. N. V., 315, 490, 511, 534; Shmatt, Dr. F. S., 503, 511; Spring, Dr. F. S., 534; Stamp, Sir J., 184
Talbot, G. W., 24; Taylor, S., 490; Thorpe, Professor J., 211; Towers, J. W., 332; Trent, Lord, 129
Underhill, B., 355; Underwood, Lt.-Col. G. J., 534
Watson, T., 106; Watt, W. W., 81; Watts, J. T., 10; West, F. J., 448; Whitaker, T. (Will), 81; Whittle, T., 490; Williams, R. B., 469; Wilsden, B. H., 160; Wishart, G. M., 553; Woosman, M., 248; Wylam, B., 81

M., 248; Wylam, B., 81
Young, L., 469
Peru: Calcium Arsenate, 423; Drugs, Crude, 442
Petrol, Air Force on British, 488
Petroleum Ceresins, Paraffin Wax and, 23
Pharmaceutical Society, 126, 464, 468
Phenols and Phenol Derivatives, 70
Phosphate Slag, Basic, in Netherlands, 225
Physical Society, The, 51, 104
Pigment Powders, Properties of, 97
Pipe Joints, Flexible, 149
Pigment Powders, Properties of, 97
Pipe Joints, Flexible, 149
Plant Accessories, 22
Plasticisers, A Choice of, 261
Plastic Material, A New, 59
Plastics Based on Rubber, 223
Plastics Bosplacing Metals, 335
Plastics for the Construction of Chemical
Plant, 286
Poisons List and Rules, The New, 543
Poland: Nitrogen-Fixation Facetory,
State, 358; British Trade Agreement
with, 255
Polarimetric Methods, 240
Police, Metropolitan, Laboratory, 352
Portland Cement Composition and
Properties of, 447
Prices, Wholesale Commodity, 105
Production, Industrial: Higher Index
Number for March Quarter, 508
Professional Societies and Society, 104
Progress, Twenty-Five Years of; 6. E.
Foxwell, 389
Pumping Machinery, Manufacture of
(Worthington-Simpson, 14d.), 425
Pump Tests, British Standard, 295
Pyrites Utilisation in Italy, 2
Pyrometer, A New Optical, 372

R

Radicals, The Simplest Free, 270
Rail Transport, Agreed Charges for, 94
Reactions, Solid, and Explosive Decomposition, 222
Reagents, Purity of Analytical, 70
Reagents, Specifications for Laboratory,
69

Reagents, Purity of Analytical, 70
Reagents, Specifications for Laboratory, 69
Reagents, Specifications for Laboratory, 69
Reagents, Tested Analytical: A New Method of Packing, 82
Redwood, California, as a Constructional Material for Tanks and Vats, 291, 481
Refractometer, A New Fibre, 336
Reorganisation Bill, Lord Melchett's, 91
Research for the Needs of Industry, 171
Resin, New, 59
Ring Balance Meters, 372
Road Research, 178
Roasting and Leaching; W. H. Ibbotson, 576
Ropes, Modern Wire, 247
Royal Air Force, Petrol for, 34
Royal Institution, 14, 424
Royal Society of Arts: Prizes for Teachers' Essays, 557
Royal Society of Arts, The; G. K. Menzies, 463
Royal Society of Arts, The; G. K. Menzies, 463
Royal Society of Arts, 55, 81, 100, 126, 176, 270, 331, 347, 357, 446, 484
Rubber, Chlorinated, for Paint and Varnish, 525
Rubber Eskhibition, The, 510
Rubber Industry, Growing Importance of the, 176

Rubber in Transport, The Part Played by, 357

Bubber Latex as a Manufacturing Material, 347

Material, 347
Rubber Latex, Ash Composition of, 336
Rubber Market Review, 140
Rubber, Properties of, 158
Rubber, Raw, Cultivation and Preparation of, 331
Rubber, Vulcanised, Strength of, 335
Rubber, Vulcanised, Strength of, 335
Rubber, Vulcanised : Dexonite, 157
Russia : Bichromate Plant; Salt Deposits in, 358
Rustproofing Process ("Iroplat"), 463

S

Safety Council, United States National,

138
Safety Rules: Testing Stills, 180
Salt Deposits in Russia, 358
Salt Industry, Dispute in the, 105, 183
Sands, The Purification of, 356
Science to Industry, The Aid of, 435
Science and Crime, 352
Sea Water, Extraction of Bromine from,

Sea Water, Parameter 115
Scientific Management, Sixth International Congress for, 113, 324, 488
Sercening Machinery; Herbert V.
Thomas, 574
Sercening and Sifting in Chemical Works,

Sereening and Sifting in Chemical Works, 152
Sesquiterpene Chemistry, 244
Shanghai: Sulphuric Acid Market, 406
Silica Gel, Applications of, 201
Silks, Weighting and Dyeing of, 33
Soap-Making, Collicidal Clay in, 545
Society of Chemical Industry at Glasgow, 504, 573; Chemical Society, and Institute of Chemistry, Draft Agreement, 283; Birmingham and Midland Section, 56, 80, 223, 241, 358; Bristol Section, 287; Edinburgh Section, 123, 126; Food Group, 213, 240, 437, 523; Glasgow Section, 142, 126, 178, 240, 241; London Section, 122, 314; Manchester Section, 36, 126, 223, 336; Newcastle-on-Tyne Section, 105, 424; Nottingham Section, 56, 263; Plastics Group, 56, 122, 286; Road and Building Materials Group, 80, 178, 447

447
Society of Dyers and Colourists, 127, 174, 290, 222, 271, 307, 356
Society of Glass Technology, 14, 95, 201, 244, 314, 356, 443
Society of Public Analysts, 81, 178, 241, 314, 335, 380, 447
Sodium Metaphosphate, Application of in Water Treatment, 26
Solids from Liquids, Separation of, 3
Solvent, A New, for the Paint Industry, 59

Solvents, Developments in the Use of,

Solvents, Developments in the Use of, 289
Solvents, Industrial, 32
Solvents, Spanish, 7
123; Potash for Denmark, Spanish, 7
123; Potash for Denmark, Spanish, 7
123; Potash for Denmark, Spanish, 7
125; Turpentine, Exports of, 262
Spectific Heats of Crystals, 446
Spectrophotometry Developments, 378
Spectroscopy, The Application of, to Chemical Problems, 47
Spectroscopy, The Application of, to Chemical Problems, 47
Spectrum Analysis in the Production of Pure Materials; Thomas L. Tippell, 74
Speed Gear Belt, A Variable, 247
Stainless Steel, 270
Stainless Steel, 270
Steam Generation, The Costs of, 212
Steam Supply, Laboratory, 375
Steel Imports, 272
Stills, Safety in Testing, 180
Stoneware, Chemical, Old and New; Felix Singer, 582
Sulphate of Ammonia Trade in 1933-34, British, 25
Sulphonated Fatty Alcohols, 126
Sulphur, Arsenic in (Letter to the Editor), 102

Sulphonated Fatty Alcohols, 126 Sulphur, Arsenic in (Letter to the Editor), 102 Sulphuric Acid, The Manufacture of, 237 Sulphur Production, 269 Sulphur, Recent Developments in the Chemistry of, 1

Sulphuric Acid Manufacture, Water Wash Towers in, 37 Sweden: Feldspar Processing, 28; Superphosphate Factories, 378; Superphosphate Imports, 566 Synthetic Resin, Transparent, 225

Tanks and Vats, Redwood, 291, 481
Tanning and Leather Dressing, Chemical
Problems of, 235
Tar, Chemical Nature of Low-Temperature, 353
Tariff Changes, 342, 491
"Tax, An Unjustifiable," 353
Technologisch Gezelschap (Students'
Association), 353
Tennis Tournament, The Chemical Age

Association), 353
Tennis Tournament, The Chemical Age
Lawn, 295, 359, 379, 426, 488, 538, 555
Textile Bleaching, 328
Textile Bratilute, The, 485
Textiles, Rare Earth Metals in the
Treatment of; A. J. Hall, 327
Thermometers and Pyrometers,
Electrical, 251
Timber Research, The Chemical Aspect
of, 57
Timbers, Fire Resistant, Empire, 524

ot, 57 Timbers, Fire Resistant Empire, 534 Tin Consumption, World, 388 Tin, Recovery of Scrap in Germany, 13 Trade Agreement with Poland, British, 255

255
Trade, British Overseas Chemical:
December (1934), 58; January, 182;
February, 274; March, 354; April,
466; May, 556
Trade, Internationalism in, 120
Traders' Defence Association, The, 94
Trichlorethylene, Effects of, 38
Tutnol: A Useful Constructional
Material, 154

Tutnol: A Useful Construction Material, 154 Tung Oil, Empire Production of, 484 U

United Dairies, Ltd.: New Laboratory,

United Bairles, Ltd.: New Laboratory, 350 United States: Carbon Black Pro-duction, 550; Cellulose Plastic Pro-ducts, 489; Chemical Trade Condi-tions, 483; Exports of Chemicals, 125, 201, 522; Mercury Mines Activity, 546; Nickel-Sulphate, 353; Sulphur Production, 368 United States Patents Action: Chancy Activated Carbon Patents Infringed, 557

Varnish not up to Standard, 470
Varnishes, Raw Material for, 236
Vat Dye Manufacture in Scotland, 222
Vats and Tanks, Developments in the
making of Wooden (Carty and Son,
Ltd.), 401s, Research on, 33
Vitamin B, Production, 533
Vulcanisation, Accelerators of, 308

Wages, Chemical Workers, 57, 82 Wages, Dyers', 128 Warfare, Chemical, 510 Water, Blending Hard and Soft, 180 Water, Distilled, for Chemical Works, 148 Water for Industrial Purposes, Examina-tion of, 75 Water Polyston. 1

Water for Industrial Purposes, Examination of, 75
Water Pollution Research Board, 215
Water Pollution in Yorkshire, 170
Water Sterilisation Problems, 197
Water Supplies Industrial and Domestic, 26, 215
Welded and Riveted Work, 247
Welding of Iron and Steel, 244
Welding of Iron and Steel, 244
Welding Frocess, 67
West Cumberland Chemists, 242
White Lead, New Methods for Manufacturing; M. Schofield, 218
Widnes, Industrial Conditions in, 128
Wiggin, Henry, and Co., Ltd., Centenary of, 460
Wool Dyeing Discovery, Demonstration of New (I.C.I.), 198, 217
Wool Substitutes, German, 215
Works Councils in Modern Industry, 175

INDEX TO METALLURGICAL SECTION

Alloys for High and Sub-Zero Tempera-Alloys, Modified (Patents), 6
Allouninum Alloys, Heat-treated, 2
Aluminium Films as Mirrors, 20
Aluminium Prospects in India, 3
Aluminium in the Chemical Industry, 16
Aluminium Scrap, Industrial, 15
Aluminium, Spectrographic Analysis of, 25

Aluminum, Spectrographic Analysis of, 25-ran Institute of Chemical Engineers, 16
Basic Slag, 34
Beryllium Alloys (Patents), 6
Bessemer Steel, Basic, at Corby, 8
British Cast Iron Research Association, The (Aunual Report), 3
Calcium for Metallurgical Use, 8
Cadmium from Flue Dust, 3
Canada, Mineral Production in, 3
Carbide Alloys, Tungsten (Patents), 5
Carbon Tool Steel, Hardening of, 25
Chromium Alloys (Patents), 5
Copper in Architecture, 15
Copper on Cast Iron, Effect of, 26

Copper Production, Restricted, 26 Copper, Refining (Patents), 6 Corrosion, A Novel Measurement of, 30 Corrosion of Stainless Steels, 14 Distillation of Metals in High Vacuum, 1 Distillation of Metals in High Vacuum, 16 Electric Furnaces in Heat Treatment, 16 Electro-Deposition, Co-operative Re-search on, 7 Enamelling, Modern Vitreous, 9 Ferrous Alloys in the Soviet Union, 20 Ferro-Vanadium (Patents), 5 Furnace, Induction, A New Electric, 30 Grain Size Control, 8 Grain Size Control, 8
Independent Fellowship, The, 6
India, Aluminium Prospects in, 3
Institute of Metals, 2
Institute of Vitreous Enamellers, 9
International Tin Research and Development Council, 18
Iron, Heat - Treating White Cast (Patents), 5
Iron, Sponge, in Russia, 1

Lead, Antimonial, Production, 4

Lithium, Metallic, 1
Magnesium Alloys (Patents), 5
Magnetic Separators (Rapid Magnetting
Machine Co., Ltd.), 18
Metallury, Research Board, 13
Metals in the Oil Industry, 29
Metal, World, Position, 14
Midland Metallurgical Societies, 21
Mineral Production in Canada, 3
Monel Metal, A Modified Form of, 29
Ackel Alloys, Heat Treatable, 30
Nickel and Chromium Plating 14
Nickel-Chromium Alloys, 16
Nitrogenising Iron Alloys (Patents), 6
Non-Ferrous Metal Research, Recent
Progress in, 33
Non-Ferrous Ores, Reducing (Patents), 6
Patents, Some Recent Metallurgical, 12, 17, 24, 28, 34
Platinum, Gold and Silver, Industrial
Uses, 21
Porosity in Steel Castings, 30
Precious Metal-Refining Industry, The
(Johnston Matthey and Co., Ltd.), 27

Refining Metals (Patents), 6 Rhenium-Plated Acid Drums, 2 Royal Society of Arts, 23 Royal Society of Arts, 23
Silver as an Engineering Material, 1
Silver in Minute Amounts, 13
Sintered Alloys (Patents), 6
Steel Booxidation Problem, The, 25
Steel for Bakelite Moulding Dies, 20
Steels, Hardening (Patents), 5
Steels, Nickel, Temper Brittleness in, 20
Steels, Nickel, Temper Brittleness in, 20
Steels, Sintless, Modern, 23
Tantalum Carbide Alloys (Patents), 6
Tin Coatings, Hot-Dipped, 32
Tin, Increasing the Strength of, 19
Tinplate Coatings, Nature of, 19
Tinplate, Fundamental Problems Connected with, 18
Tinplate, Yellow Stains on, 25
Titanium on Iron and Steel, Effect of, 19
United States Molydenum Industry, 33 United States Molybdenum Industry, 33
Welding in the Chemical Engineering
Industry, 31
Zinc, Electrolytic Recovery of, 2
Zinc Manufacturers' Scheme, 32

